

BROOKHAVEN NATIONAL LABORATORY PHYSICS DEPARTMENT	Number: PO-EMS-05	Revision: 2.0
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Subject: EMS Information and Aspects List		EMSinfo.doc
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## What is an Environmental Management System (EMS)?

An [EMS](#) is the ISO standard 14001 that BNL has committed to implementing site wide. In this system, [environmental aspects](#) are identified and ranked by [significance criteria](#). Plans and controls are implemented to manage these significant aspects. At BNL, EMS also includes [pollution prevention](#) measures.

### *BSA's Environmental Policy Commitments:*

- **Comply with Requirements.**
- **Minimize or Prevent Pollution.**
- **Cleanup Existing Contamination.**
- **Inform and Involve the Community.**
- **Improve our ISO 14001 (EMS) Systems.**

### *What every Employee needs to know about their work:*

- **How it could impact the environment.**
- **What you can do to prevent these impacts.**
- **What to do in case of emergency.**
- **Consequences of noncompliance with requirements.**
- **How you can improve BNL's environmental performance.**

## What makes up the Physics Department EMS?

- Environmental responsibilities are included in your R2A2s.
- [Identification of significant environmental aspects](#) via [Experiment Safety Reviews](#), [EPA Phase II review](#), [Facility Use Agreement](#) (FUA), [Work Planning](#).
- Significant environmental aspects in Physics are:
  - [Regulated Industrial Waste](#) (any oils, etc.).
  - [Hazardous Waste](#) (any hazardous waste generation).
  - [Radioactive Waste](#) (any radioactive waste generation).
  - [Mixed Radioactive Waste](#) (legacy mixed waste generation).
  - Storage/Use of Chemicals/Radioactive Materials. [On-site transportation of chemicals](#); [Storage/Use of PCBs](#) (ATF klystron oil); and [Chemical Storage](#) (Article 12 Tank at ATF).
- None of these aspects have a significant **impact** during **normal** work.
- Plans for the [management and control](#) of aspects are already in place.
- [Pollution prevention](#) review of one experimental process per year.

## What are your EMS-related responsibilities when you work in the Physics Department?

- **All workers:**
  - Understand and follow procedures that control your work.
  - Be familiar with [SBMS Subject Areas](#) relevant to your work.

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- Obtain and maintain training relevant to your work.
- Be alert for [pollution prevention / waste minimization opportunities](#).
- Call x2222 if you witness something that may be [detrimental to the environment](#).  
Take mitigating actions only if you are competent to do so.
- Be familiar with [EMS-related information](#) that supplements BNL training courses.
- **Principal Investigators (in addition to the above):**
  - Obtain approvals (Work Planning and Control for Experiments and Operations Subject Area) before beginning any experimental work, including setup.
  - Generate procedures with input and feedback from workers.
  - Identify all environmental aspects in your Experiment Safety Review.
  - Subscribe to relevant SBMS Subject Areas ([change notification subscription service](#)).